

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

| SPEC. SECTION | CATEGORY CODE NO. | QUANTITY | DESCRIPTION |
|---------------|-------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 806 | 960022 | 8 EACH | 12 IN., 1-WAY, 3-SECTION (R,Y,G) SIGNAL HEAD MAST ARM MOUNT |
| 816 | 971017 | 1 EACH | EIGHT PHASE, FULLY-ACTUATED TRAFFIC SIGNAL CONTROLLER, WITH INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP IN A NEMA SIZE '6' BASE MOUNTED SYSTEM READY CABINET. |
| 816 | 963007 | 2 EACH | FOUR CHANNEL LOOP DETECTOR AMPLIFIERS (DELAY OUTPUT) |
| 813 | 973023 | 120 S.F. | SHEET ALUMINUM SIGNS <div><div>-</div><div>3 EACH</div><div>R3-5 SIGN (30 IN. x 36 IN.) - "LANE USE CONTROL - LEFT ONLY" MAST ARM MOUNT</div><div>-</div><div>2 EACH</div><div>D3-2 SIGN (VARIABLE x 16 IN.) - (ADVANCE STREET NAME PANEL) MAST ARM MOUNT</div><div>-</div><div>2 EACH</div><div>D3-2 SIGN (VARIABLE x 32 IN.) - (ADVANCE STREET NAME PANEL) MAST ARM MOUNT</div><div>-</div><div>2 EACH</div><div>ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (30 IN. x 51 IN.) POLE MOUNT: M3-4 SIGN (24 IN. x 12 IN.) "WEST" (FOR INDEPENDENT USE) M1-5 SIGN (30 IN. x 24 IN.) "MARYLAND 332" (FOR INDEPENDENT USE) M6-1 SIGN (21 IN. x 15 IN.) "DIRECTIONAL ARROW-HORIZONTAL"</div><div>-</div><div>2 EACH</div><div>ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (30 IN. x 51 IN.) POLE MOUNT: M3-2 SIGN (24 IN. x 12 IN.) "EAST" (FOR INDEPENDENT USE) M1-5 SIGN (30 IN. x 24 IN.) "MARYLAND 332" (FOR INDEPENDENT USE) M6-1 SIGN (21 IN. x 15 IN.) "DIRECTIONAL ARROW-HORIZONTAL"</div></div> |

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

| SPEC. SECTION | CATEGORY CODE NO. | QUANTITY | DESCRIPTION |
|---------------|-------------------|-----------|------------------------------------------------------------------------------------------|
| 104 | 120500 | L.S. | MAINTENANCE OF TRAFFIC |
| 205 | 203030 | 6 C.Y. | TEST PIT EXCAVATION |
| 801 | 801004 | 10 C.Y. | FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION |
| 804 | 837001 | 5 EACH | FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH |
| 805 | 805160 | 25 L.F. | FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE |
| 807 | 807205 | 1 EACH | FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT |
| 810 | 802501 | 375 L.F. | FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG) |
| 810 | 861104 | 1270 L.F. | FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED) |
| 810 | 861107 | 115 L.F. | FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) |
| 810 | 862101 | 1560 L.F. | FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG) |
| 811 | 811001 | 7 EACH | FURNISH AND INSTALL ELECTRICAL HANDHOLE |
| 813 | 800000 | 120 S.F. | INSTALL OVERHEAD SIGN |
| 815 | 862102 | 325 L.F. | FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR) |
| 816 | 871201 | 1 EACH | INSTALL EIGHT-PHASE (FULLY ACTUATED) CONTROLLER AND CABINET - BASE MOUNTED |
| — | 800000 | L.S. | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT |
| — | 873001 | L.S. | REMOVE EXISTING SIGNAL EQUIPMENT TO BE SALVAGED |
| 810 | 861108 | 725 L.F. | FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) |
| 815 | 800000 | 4 EACH | FURNISH AND INSTALL 21' STEEL POLE WITH 38 FT. MAST ARM. |
| 805 | 805011 | 20 L.F. | FURNISH AND INSTALL 1" GALVANIZED STEEL ELECTRICAL CONDUIT FOR DETECTOR SLEEVE. |
| — | 800000 | L.S. | DELIVERY OF SALVAGED MATERIALS |
| 806 | 800000 | 8 EACH | INSTALL SIGNAL HEADS - ANY TYPE |
| 805 | 800000 | 205 L.F. | FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. |
| 805 | 800000 | 285 L.F. | FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. |
| 805 | 805150 | 155 L.F. | FURNISH AND INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED. |
| 805 | 800000 | 15 L.F. | FURNISH AND INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. |
| — | 500000 | 110 L.F. | FURNISH AND INSTALL 24" WHITE HEAT APPLIED PREFORMED PAVEMENT MARKINGS (STOP LINE). |
| — | 500000 | 430 L.F. | FURNISH AND INSTALL 12" WHITE HEAT APPLIED PREFORMED PAVEMENT MARKINGS (CROSSWALK). |
| 810 | 800000 | 10 L.F. | FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 4 A.W.G.) |

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

| QUANTITY | DESCRIPTION |
|----------|----------------------------------------|
| 1 | TRAFFIC SIGNAL CONTROLLER AND CABINET. |
| 1 | STEEL POLE WITH 60' MAST ARM |

- NOTES:
1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.
 2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

SS-3

RK & K
RUMMEL, KLEPPER
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CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217

TEL: (410) 728-2900 FAX: (410) 383-3270

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|-------------------------------------------------------|-------------------------------------------|
| REVISIONS: | APPROVALS: |
| | CHIEF SIGNAL DESIGN SECTION |
| | ASST. DISTRICT ENGINEER - TRAFFIC |
| | CHIEF TRAFFIC ENGINEERING DESIGN DIVISION |
| (B) Reconstruct Due To New Geometrics, SHA No: PG2302 | January, 1999 |
| | DIRECTOR OFFICE OF TRAFFIC & SAFETY |

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| MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 16033200.16 | | | |
| DRAWN BY: SMH DES. BY: SMH CHK. BY: BJH | | MD 332 (CENTRAL AVENUE) AT CHAMBER AVENUE/LARCHMONT AVENUE SIGNAL PLAN COUNTY: PRINCE GEORGE'S | |
| DATE: JANUARY, 1999 | F.A.P. NO. | SEE TITLE SHEET | TS/STD. NO.: |
| SCALE: N/A | S.H.A. NO. | PG321B21 | 1838B-G12 |
| | | | SHEET NO. 1 OF X |